TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 10-07-18

Lab ID	:	**CP-RW-2018-07-07-11**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and construction of CC road at Urdu school opp road and cross roads at Dasarahalli in Ward No.15
Agency	:	Nandi Enterprises (Pro. P Vijaya Babu) No 1504 4th 'C' Main, 2nd Stage WOC Road, Bangalore-560086
Customer Reference	:	EE/DD/WO/13/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-18
Sample ID No	:	2018-07-07-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-07-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301	301
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	83	79
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	217.7	221.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	27.6	26.2
6	Aggregate impact value (Mean of two tests)	Pecentage	26.9	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-07-07-11** **Date: 10-07-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and construction of CC road at Urdu school opp road and cross roads at Dasarahalli in Ward No.15
Agency	:	Nandi Enterprises (Pro. P Vijaya Babu) No 1504 4th 'C' Main, 2nd Stage WOC Road, Bangalore-560086
Customer Reference	:	EE/DD/WO/13/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-18
Sample ID No	:	2018-07-07-11/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-07-18

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.2	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9	
Combined Flakiness and Elongation Index for WMM	22.1	

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Quality Manager

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: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No. : TC- 9648

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-13-11

Date: 17-07-18

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP,

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Providing and construction of CC road at Urdu school opp road and cross roads at Dasarahalli in Ward No.15

Agency : Nandi Enterprises (Pro. P Vijaya Babu) No 1504 4th 'C' Main, 2nd Stage WOC Road, Bangalore-560086

Customer's Reference : EE/DD/WO/13/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-18

Sample ID No : 2018-07-13-11 /01

Sample Type : ACC 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 14-07-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Quality Manager

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Page 1/1

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-13-11** **Date: 17-07-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and construction of CC road at Urdu school opp road and cross roads at Dasarahalli in Ward No.15
Agency	:	Nandi Enterprises (Pro. P Vijaya Babu) No 1504 4th 'C' Main, 2nd Stage WOC Road, Bangalore-560086
Customer's Reference	:	EE/DD/WO/13/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-07-18
Sample ID No	:	2018-07-13-11 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-13-11** **Date: 17-07-18**

Sample ID No : 2018-07-13-11 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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